WHAT IS CLAIMED IS:

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- 1. A fan structure comprising a hub, a motor located inside the hub, a plurality of fan blades connected to the hub, and a circuit board connected to the motor, wherein the circuit board comprises:
- a circuit region provided on a first surface of the circuit board, the circuit region comprising at least one heat-generating component thereon; and
 - a heat-dissipative film coated on an edge portion of the first surface and in contact with the heat-generating component.
- 2. The fan structure as claimed in claim 1, wherein the circuit region is surrounded by the heat-dissipative film.
 - 3. The fan structure as claimed in claim 1, wherein the heat-dissipative film extends outside the circumference of the hub.
 - 4. The fan structure as claimed in claim 1, wherein the heat-dissipative film is formed with a plurality of openings.
- 5. The fan structure as claimed in claim 1, further comprising a heat sink located on a second surface of the circuit board opposite to the first surface of the circuit board.
 - 6. The fan structure as claimed in claim 5, wherein the heat sink is connected to the heat-dissipative film by means of a plurality of through holes and a fastening portion.

- 7. The fan structure as claimed in claim 1, wherein the first surface of the circuit board comprises a protrusion for carrying the heat-generating component and optionally the heat-dissipative film, and the protrusion extends outside the circumference of the hub.
- 8. The fan structure as claimed in claim 7, wherein the protrusion has a cutout that extends from a tip of the protrusion to the heat-generating component.
 - 9. The fan structure as claimed in claim 7, wherein the protrusion has a cutout that extends over a portion of the heat-generating component so that the portion of the heat-generating component is exposed via the cutout in the protrusion.
 - 10. A fan structure comprising a hub, a motor located inside the hub, a plurality of fan blades connected to the hub, and a circuit board connected to the motor, wherein the circuit board comprises a protrusion, which extends outside the circumference of the hub and carries thereon a heat-generating component.
 - 11. The fan structure as claimed in claim 10, wherein the protrusion further comprises a cutout that extends from a tip of the protrusion to the heat-generating component.
- 20 12. A circuit board for operating a fan, comprising:

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- a circuit region provided on a first surface of the circuit board and including at least one heat-generating component thereon; and
- a heat-dissipative film coated on an edge portion of the first surface and in contact with the heat-generating component.

- 13. The circuit board as claimed in claim 12, wherein the circuit region is surrounded by the heat-dissipative film.
- 5 14. The circuit board as claimed in claim 12, wherein the heat-dissipative film is formed with a plurality of openings.
 - 15. The circuit board as claimed in claim 12, further comprising a heat sink provided on a second surface of the circuit board opposite to the first surface of the circuit board.
 - 16. The circuit board as claimed in claim 15, wherein the heat sink is connected to the heat-dissipative film by means of a plurality of through holes and a fastening portion.

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- 17. The circuit board as claimed in claim 15, wherein the heat sink is selected from the group consisting of a heat-conducting film and a heat-conducting sheet.
 - 18. The circuit board as claimed in claim 12, wherein the first surface of the circuit board comprises a protrusion and the at least one heat-generating component is mounted over the protrusion of the first surface.
 - 19. The circuit board as claimed in claim 17, wherein the protrusion has a cutout that extends from a tip of the protrusion to the heat-generating component and optionally to the heat-dissipative film.

20. The circuit board as claimed in claim 12, wherein the heat-dissipative film is formed
by a coating film made of heat-conducting material.